

3541 Diag Cht. No. 8152-1

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Department of Commerce and Labor
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COAST AND GEODETIC SURVEY
Superintendent
State: Alaska.
DECCRIPTIVE DEPORT
DESCRIPTIVE REPORT.
Tych. Sheet No. 3541
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LOCALITY:
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1913
CHIEF OF PARTY.
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Hydrographic Sheet of . 3541

Southern extremity Cape Muzon, ...

S.E.Alaska.

Scale 1:2000

Steamer GEDNEY.

Season April to October 1913.

R.B.Derickson, Asst., Comdg.

R.W.Healy, Mate, C.& G.S.

Chief of Party

Hydrographer.

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET 8541

SOUTHERN EXTREMITY CAPE MUZON, S.E.ALASKA

The sounding lines and positions on this sheet were plotted on board the Str.GEDNEY, scale 1:2000.

The hydrographic shockered projection was made in the field. Signals and shoreline transferred directly from the topographic sheet.

The soundings were made with hand lead from the whaleboat.

Individual soundings with positions were taken when it was impracticable to run a regular line on account of kelp and sea.

The object of this hydrographic survey is to show the depths and between in the vicinity of the bare rocks at the extremity of Cape Muzon.

Hydrography by R.W. Healy, Mate, in charge of the sounding boat.

The tital station is a plane staff near triangulation station CAPE. The datum of soundings was derived by simultaneous comparisons with the automatic gauge at Cruz Bay. No Bool Sheet was used

Respectfully submitted,

Chief of Party, C.& G.S.

(Data for Boundary Survey)

It is presumed that the draftsmen based his criticisms on the assumption that the work is on a scale of 1:20,000 as shown in the title. This is erroneous; the work was done on a scale of 1:20,000 and is exceptionally close for open coast work.

(1) The recording of the courses was omitted from the records by reason of the fact that the sounding boat was hardly more than a few boat lengths on each course. The ocean swell and back wash from the rocks would cause the boat to swing many points. The recording of courses under such circumstances would confuse the records and would be of so value.

The character of the work would not permit of the use of a boat sheet. It could not be handled in the sounding boat. The work was plotted by the officer in charge of the boat upon leaving the

locality.

(2) The soundings on the outer slope of the 4/6 fathom spot east and southeast of Orogen are within 30 meters of the top of the shoal. The 4/6 and 3/6 soundings are within 35 meters of the main island rock. The object of the survey was to determine the depths in the passages between the rocks off Cape Muzon.

RB Acrickson Party

HYDROGRAPHIC SHEET 3541.

Vicinity of Cape Muzon, S. E. Alaska, by Asst. R. B. Derickson in 1913.

TIDES.

	Cape Muzon ft.
Mean lower low water, or plane of reference on staff	2.9
Lowest tide observed " "	0.3
Highest " " " "	15.8
Mean range of tide	10.0

EXAMINATION OF HYDROGRAPHIC SHEETS Leading by the DIVISIONS OF FIELD WORK AND FIELD RECORDS.

Sheet No. 3541

alaska
1. + Are numbers of hydrographic sheets adjoining limits of work
shown? Ro
2. Are transferred soundings of adjacent hydrographic sheets
made to show that ground has been covered?
3. + Is sheet of proper size?
4. + Is sheet well laid out, no additions required?
5. Are limits of hydrography regular?
6. + Are positions of signals accentuated by light dot of black
ink to assist plotting?
7. + Are tidal stations plotted on sheet?
8. Is area of work completely covered? M.

9. Are critical soundings and dangers shown distinctly?

10.+ Is the control good? No trian : stations
ll. + Are positions of signals clearly shown?
12. Are soundings well distributed? No

3. Are shoals carefully and sufficiently developed?
10 fms in lat 54-30/3 and 176 fms shoul
near rock baring at low water.
Do soundings cross satisfactorily?

15.	Is existence or non-existence of a reported shoal determined?
	• • • • • • • • • • • • • • • • • • • •
16.	Is least sounding over bar probably determined by check sound
	ings or diagonal sounding lines crossing same?

	~~~~
17.	+ Are projection and plotting checked?
18.	Is the scale of this sheet sufficient to show the necessary
	details in the navigable channels?
	***************************************
19.	+Is the shoreline shown?
20.4	Fig. 1 Is there an accompanying list of plane table or sextant posi-
	tions of signals?
21.	Has sufficient attention been given to the development of
	channel? Mo
	***************************************
22.	Are sufficient bottom characteristics shown?
	***************************************
23.	Are sounding lines normal to coast?
	***************************************
24.	Have suspicious soundings been investigated?
	***************************************
25.	Are ranges or bearings given for important shoals?
	***************************************
26	Are sailing directions given?

27.	Is the general hydrography in the entire area properly devel-
	oped?
28.	Are shallow channels for motor boats sounded?
	***************************************
29.	Is there a note as to coloration of water in or near mouths of
	rivers and bays?
30.	Is there any information given as to obtaining fresh water?
31.	Are there proper intervals between soundings?
32.	Are projecting points of land and reefs determined by sufficient lines with soundings at close intervals run at right
	angle to direction of points?
	***************************************
33.	Is there sufficient data to draw depth curves?
	place)
34.	Are shoal areas remote from shore properly developed by independent system of goy signals placed in the vicinity of shoal?
35_	Are soundings obtained at docks in harbor?
•	
70 =	Is there a full list of data effecting sheet given?
30. T	
37.	Are description of hydrographic signals and marking of same "
	recorded.
38.	Is there a list of land marks given?

39.+ Does descriptive report give date of instructions?
e de la companya de l
40. Are small islets and rocks distinctly shown?
and a commentation of a constraint and a
41. Is information relative to anchorage given?
42. # Are survey methods explained sufficiently?
43. Are geographical names given on sheet?
44. Are coast pilot notes given?
45. Is the unit of soundings given in title?
46. Are sufficient depth curves shown?
47. Are aids to navigation shown?
48. Are grass or kelp indications shown?
49. Are sailing courses shown on sheet?
50. Is descriptive note given as to visibility of shoals?
***************************************
51. Are dangers fully described in descriptive report?
52. Is the character of roofs described on shorts
52. Is the character of reefs described on sheet?
***************************************
53. Are beaches indicated where vessels in distress could be safe-
Ly beached? No.
54. Are standard symbols used in drafting?
55. Is information relative to currents given?
56. Is there a statement as to certainty or probability of least
depth over dangers given?
57. Is the existence of certain shoals doubtful?
58. Is a general description of coast given? Mo

	59.	Is information relative to commercial importance given?
		***************************************
	60.	Does the descriptive report cover one or a moderate number of
•		sheets?
	61.	Are descriptions of headlands given?
	62.	Is the nature of shoals whether coral rock or sand shown on
		sheet?
	63.+	Is the position of the tide gauge well selected? Is the tidal data sufficient for the reduction of soundings over the area
		of the sheet?
		***************************************
	64.+	Have projection lines been numbered around all the edges?
		***************************************
	65,+	Has the geographic position of one of the triangulation point on the sheet been inked near the bottom edge of the sheet?
		***************************************
	66.	Was the speed of the sounding boat such as to allow vertical
		readings of the leadline?
		***************************************
	67.	Were lines of soundings run along the axis of narrow channels
		***************************************
	68.	Have rocks or shoals seen from the sounding boat in passing
		been definitely located?
		**************************************
	69.	Have charted shoals reefs, or rocks been investigated?
		*****
	70.+	Have sounding records been kept in approved form?
		***************************************

71.	Are Wire drag surveys required?
72.	Is the area between the soundings taken and the shore indicated or described as being covered by reefs, etc. as the case may be?
	************************
Othe	r Remarks
	***************************************
	***************************************
diti	The forgoing points marked by a cross (+) and the following ad- onal points are to be considered for wire drag hydrographic sheets
73.	What additional areas, if any, in the locality covered by the
	sheet should be dragged?
	***************************************
74.	Number of small areas inside limits of work missed by drag (few,
	moderate number, numerous)
75.	Are shoals discovered with drag clearly shown?
76.	Were shoals later covered by drag set at suitable depth?
	***************************************
77.	Are all areas missed by drag clearly shown?
78.	Are overlaps ample?
79.	Do effective depths conform to instructions under which the work
	was done?
80.	If work was done before present practice as regards effective depths was adopted, should the area be re-dragged to conform
	to the present practice?
	**************************************
	***************************************
81.	Are all shoals discovered shown on current issue of chart?
	ing dia mengangkan pengangkan pengangkan pengangkan pengangkan pengangkan pengangkan pengangkan pengangkan pen Pengangkan pengangkan pengangkan pengangkan pengangkan pengangkan pengangkan pengangkan pengangkan pengangkan Pengangkan pengangkan pengangkan pengangkan pengangkan pengangkan pengangkan pengangkan pengangkan pengangkan



Hyd Sheet No. 3541. Cape Muzon. Southeastern Alaska. The positions on this sheet were procted by the field posty and have been taken as correct being verified only when errors were appoarant or when necessary to locate position and The fact that the records do not show course being um on when there bring no boat sheet on file which with which to check up make Errors possible. This data is called for under General Instructions The work is passably good and appear sufficient for a general development of this area but is not considered Sufficent for an accurate development. The indications are that the shoal making out about southeast from calond on which o trog is located makes beyond the and the show east of same informed may extend beyond the founding the former that the shoul east of island on which o Sull is located may make further east that the Hathon Somedings recorded and a shoal may make out southeast or skeeler water from some island toward the detached 10 fothow sounding seconded, These places should have been further examined. Vienning The detacked wet awash south of a Dad might also have been further examined. John D. Torrey soundings and 3/0/14 course weified Clino Pettery The records were most keps out
the plotting of lines and soundings well
dow. It is not an exploration sway
but intended rather to locate the rock
upon which the Str. State of Bod struck,
upon which the Str. State of Bod struck,
Whe whole Bay should be resurveyed
and the gay and approaches swept with
a wire drog. It is perbable that other
rocks exist that are likely to be struck
a bringulation of the gay should
be made and top revised if found
were soary. This survey was and connected

will the thingulation.

Sept.